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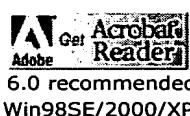
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Patent Abstract[Add to cart](#)**GER 1999-06-24 19757197 Manufacture procedures
for micro-mechanical appliance****ANNOTATED TITLE- Herstellungsverfahren foOr
mikromechanische Vorrichtung****INVENTOR(S)-** Funk, Karsten 70195 Stuttgart DE**INVENTOR(S)-** Frey, Wilhelm, Dr. 70469 Stuttgart DE**APPLICANT(S)-** Robert Bosch GmbH 70469 Stuttgart
DE**PATENT NUMBER-** 19757197/DE-A1**PATENT APPLICATION NUMBER-** 19757197**DATE FILED-** 1997-12-22**DOCUMENT TYPE-** A1, DOCUMENT LAID OPEN (FIRST
PUBLICATION)**PUBLICATION DATE-** 1999-06-24**INTERNATIONAL PATENT CLASS-** G02B02608;
C23F00104; H01L04900; G02B02608M4B; B81B00300M2D

PATENT APPLICATION PRIORITY- 19757197, A
PRIORITY COUNTRY CODE- DE, Germany, Ged. Rep. of
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FILING LANGUAGE- German
LANGUAGE- German NDN- 203-0421-7037-3

The invention creates a manufacture procedure for a micro-mechanical appliance, especially for a micro-mechanical Schwingspiegelvorrichtung, with the steps: With what the second layer (20) lies between the first and the third layer (10, 30) prepares a three-layered structure (10, 20, 30)

with a first layer (10), a second layer (20) and a third layer (30); Durchatzen of the first layer (10) up to the second layer (20) to generating an on the second layer (20) of lying island area (40), that over one or several connection bridges (50), with which is surrounding area (60) of the first layer (10) interconnected the island area, and Durchatzen of an area (70, 80) the third layer (30) up to the second layer (20) and removing of an area (75, 85) the second layer (20) under the island area (40), so, that the island area (40) can execute movements, preferably torsion vibrations, about the one or them/her/it several connection bridge (50), the such an amplitude shows, that a part of the island area (40) in-sticks out the third layer (30) into the durchgeatzen area (70, 80).

EXEMPLARY CLAIMS- 1. Manufacturing process fr a micromechanical forwards-direction, in particular fr a micromechanical swing- mirror device, with the steps: Makes available to a dreischichtigen structure (10, 20, 30) with a first layer (10), a second layer (20) and a third layer (30), whereby the second layer (20) lies between first and the third layer (10, 30); Durchtzen of the first layer (10) up to the second layer (20) for producing one on the second layer (of 20) lie-genden island range (40), which more ber one or more-connection bars (50) with the island range (40) surrounding range (60) of the first layer (10) is connected; and Durchtzen of a range (70, 80) of the third layer (30) up to the second layer (20) and removing a range (75, 85) of the second layer (20) under the island range (40) in such a manner, since the island range (40) can ausfren around or several connecting posts (50) movements, preferably torsion vibrations, which exhibit such an amplitude, there a part of the island range (40) into the durchgetzen range (70, 80) of the third layer (30) projects. 2. Procedure according to requirement 1, by it marked, there zunst the Durchtzen of the range (70) of the third layer (30), afterwards the Durchtzen of the first layer (10) and afterwards removing the range (75) of the second layer (20) is durchgefht. 3. Procedure according to requirement 2, thereby is marked, there the Durchtzen of the range (70) of the third layer (30) is durchgefht by an anisotropic Rckseitentzung. 4. Procedure according to requirement 1, 2 or 3, thus gekenn -, there the Durchtzen of the first layer (10) draws by a Trockentzung is durchgefht. 5. Procedure according to requirement 1, by it marked, there zunst the Durchtzen of the first layer (10) and afterwards removing the range (85) of the second layer (20) and the Durchtzen of the range (80) of the third layer (30) is durchgefht. 6. Procedure according to requirement 5, thereby is marked, there the Durchtzen of the range (80)

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